

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P646962

Luminaire Tested: **GALN-SA5C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24224.5 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

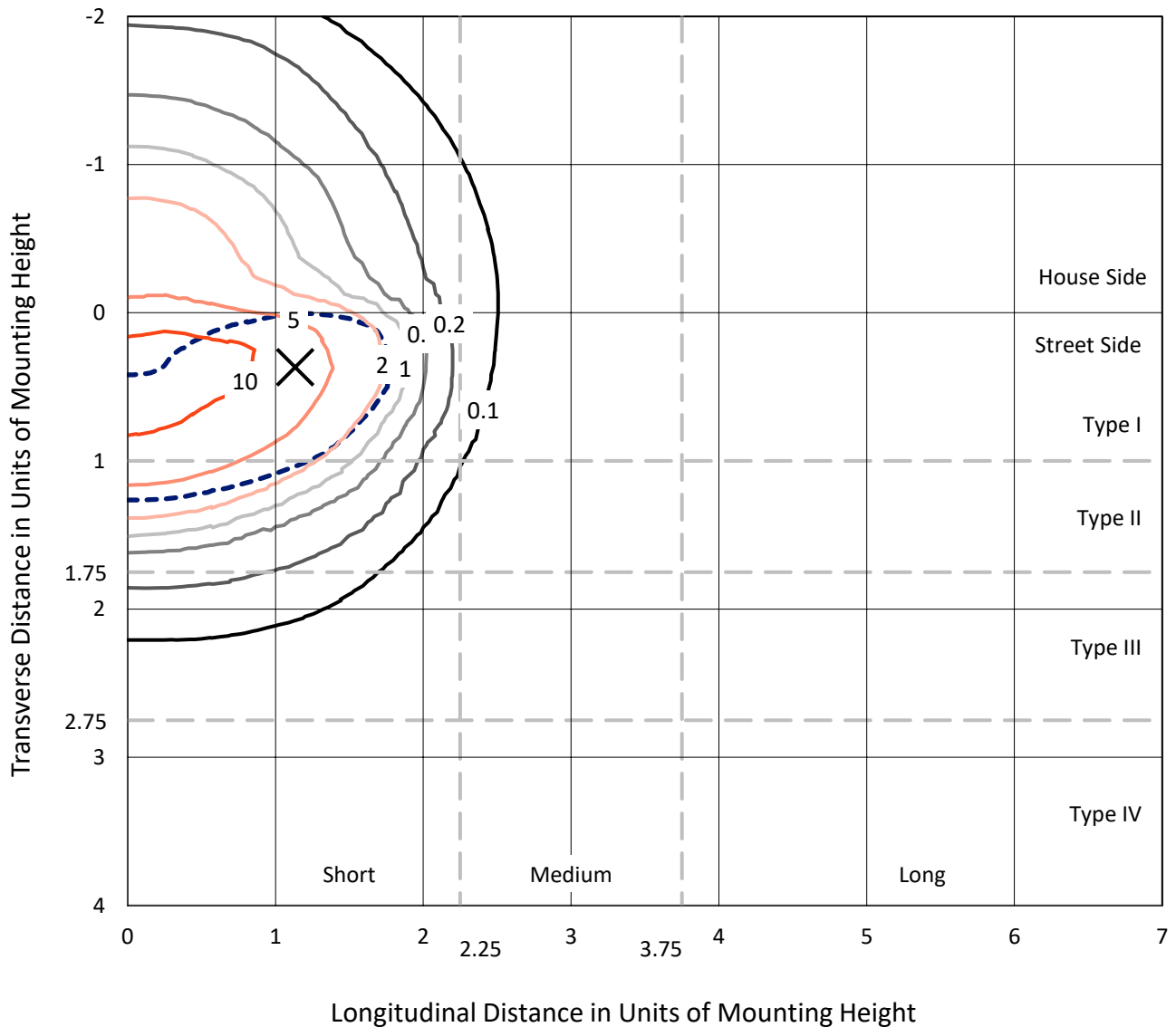
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

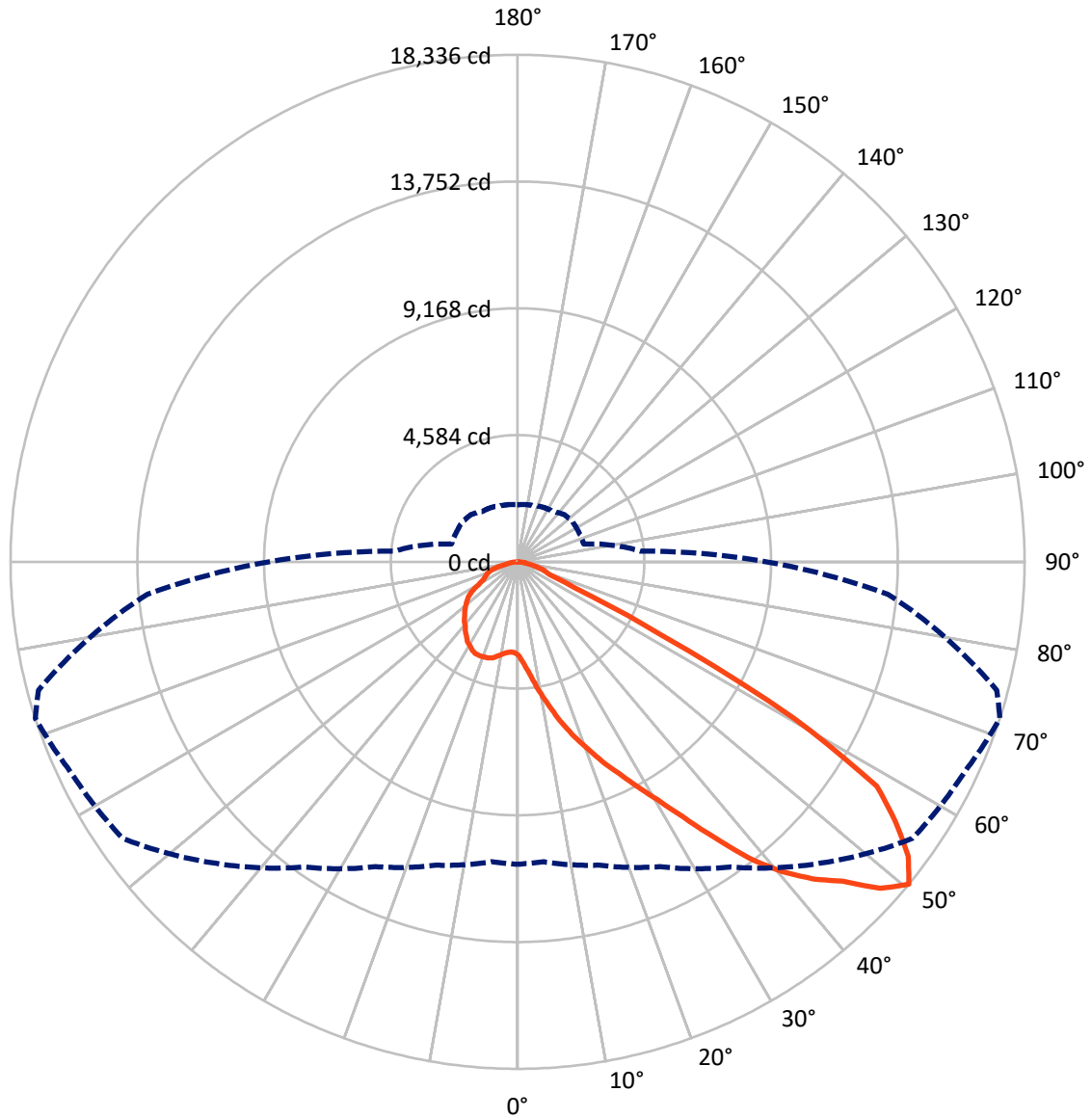
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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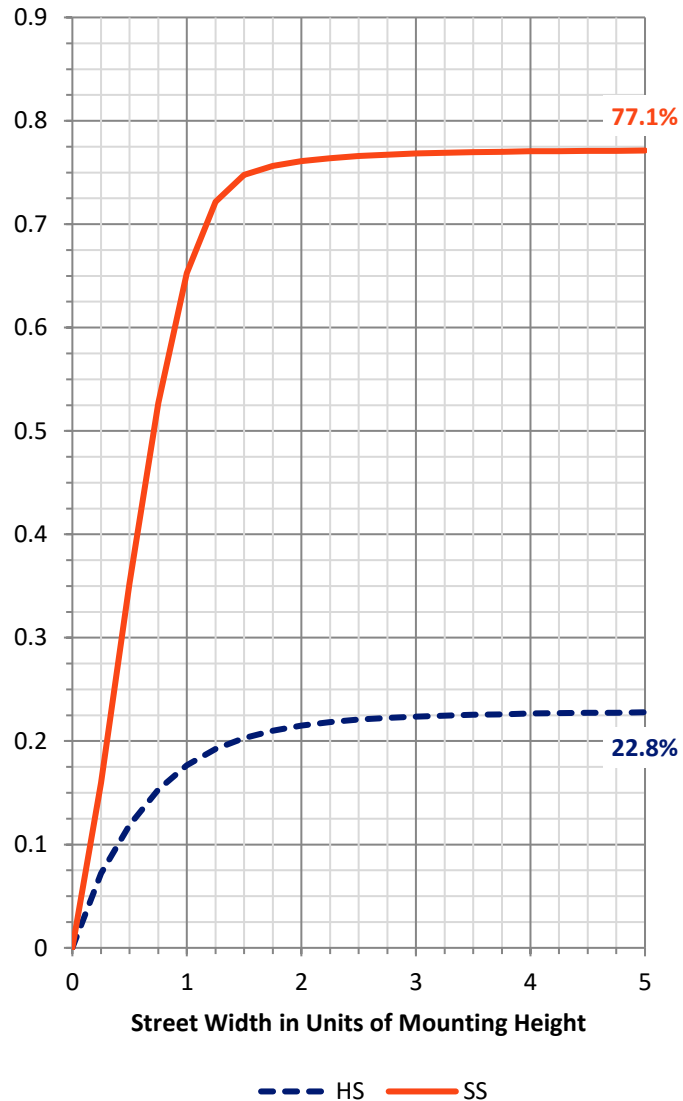
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5550.0	0.0	5550.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	18674.5	0.0	18674.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	24224.5	0.0	24224.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.7	1.6
10°-20°	1482.9	6.1
20°-30°	2875.2	11.9
30°-40°	4763.1	19.7
40°-50°	6664.7	27.5
50°-60°	5622.5	23.2
60°-70°	1713.7	7.1
70°-80°	601.2	2.5
80°-90°	104.5	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24224.5	100.0
0°-180°	24224.5	100.0

**Coefficient of Utilization**

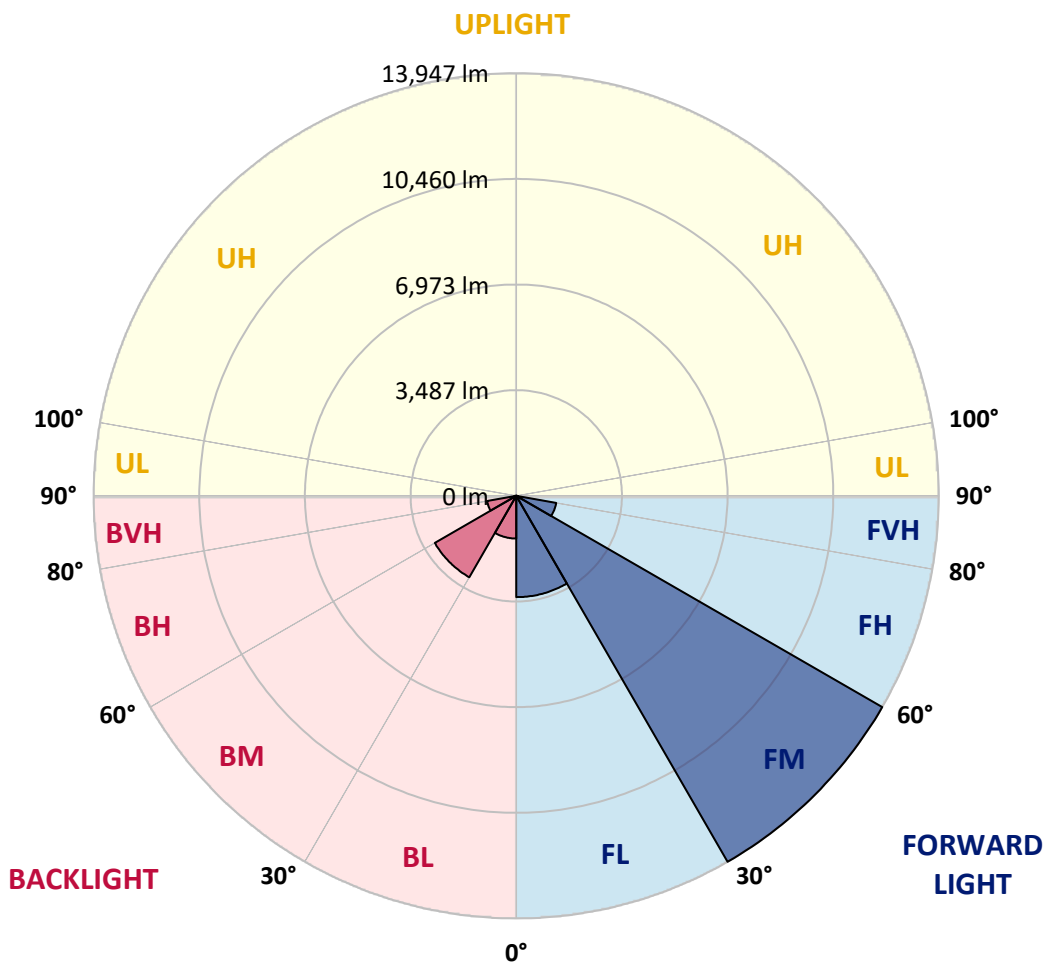


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3343.8	13.8			
FM (30°-60°)	13946.7	57.6			
FH (60°-80°)	1337.2	5.5			G1/1800
FVH (80°-90°)	46.8	0.2			G1/100
BL (0°-30°)	1410.8	5.8	B3/2500		
BM (30°-60°)	3103.6	12.8	B3/5000		
BH (60°-80°)	977.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	57.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2
2.5°	4337.4	4310.5	4229.5	4202.6	4106.7	3932.8	3872.9	3696.0	3621.1	3552.1	3471.2
5°	5485.5	5359.6	5350.6	5197.8	4976.0	4847.1	4463.3	4205.6	3968.8	3848.8	3627.0
7.5°	6216.9	6219.9	6219.9	6094.0	5917.2	5590.5	5245.7	4781.1	4424.4	4247.5	3869.8
10°	6912.4	6852.4	6819.5	6807.5	6687.5	6369.8	6001.1	5425.6	4937.0	4730.2	4052.7
12.5°	7404.0	7353.0	7427.9	7389.0	7302.0	7095.2	6747.5	6091.0	5479.5	5200.8	4346.4
15°	7637.8	7673.7	7733.7	7841.6	7802.7	7724.7	7341.0	6774.4	6064.0	5749.3	4607.3
17.5°	7997.5	7898.6	7970.5	8105.4	8213.3	8177.3	7958.5	7269.1	6642.6	6255.9	4958.0
20°	8249.3	8192.3	8228.3	8384.1	8465.1	8668.9	8555.1	7916.5	7197.1	6789.5	5371.6
22.5°	8968.7	8884.8	8767.9	8791.8	8821.8	8965.7	8992.7	8626.9	7841.6	7409.9	5764.3
25°	9855.9	9778.0	9640.1	9499.3	9412.4	9385.4	9478.3	9184.5	8459.1	8012.4	6187.0
27.5°	10833.2	10701.3	10614.3	10323.6	10089.7	10053.8	10008.9	9850.0	9190.5	8707.9	6663.6
30°	11783.4	11678.4	11561.5	11097.0	10854.2	10815.2	10593.4	10638.3	9984.9	9448.3	7203.1
32.5°	12502.8	12511.8	12245.0	11894.3	11666.5	11459.7	11378.7	11507.6	11004.0	10572.4	7805.6
35°	13084.3	13111.3	12856.5	12538.8	12292.9	12436.9	12400.9	12460.8	12221.1	11693.5	8507.1
37.5°	13650.9	13516.0	13243.2	13090.4	12961.5	13198.2	13504.0	13555.0	13599.9	12979.4	9322.4
40°	13743.8	13755.8	13597.0	13704.8	13542.9	13899.7	14610.1	14544.1	14727.0	14184.4	10206.6
42.5°	13611.9	13638.8	13701.8	13854.7	14244.4	14673.0	15728.2	15458.4	15680.2	15197.6	11067.0
45°	13396.1	13285.2	13363.1	13944.6	14619.1	15572.3	16750.3	16540.5	16468.6	16063.9	12092.1
47.5°	12364.9	12478.8	12721.6	13438.1	14451.2	15728.2	17475.8	17427.8	17643.7	17358.9	13024.3
50°	10935.1	10890.1	11357.7	12164.1	13471.0	15422.4	17436.8	17871.4	18336.1	17940.4	13441.1
52.5°	8189.3	8429.2	8830.8	9832.0	11696.5	13755.8	16585.5	17310.9	17688.6	17604.7	13105.3
55°	5176.8	5248.7	5491.5	6681.6	8360.2	11040.0	14217.4	15899.0	16573.5	16888.2	12796.6
57.5°	2514.9	2380.1	2676.8	3633.0	4829.1	7425.0	10965.1	13848.7	15314.5	15884.0	12125.1
60°	1312.9	1363.9	1480.8	1822.5	2497.0	3854.9	6834.4	9229.5	11468.7	12343.9	9190.5
62.5°	1088.1	1106.1	1184.1	1354.9	1660.7	2218.2	3489.1	4499.4	5848.2	6636.6	5227.7
65°	923.2	932.2	1016.2	1130.1	1324.9	1561.7	1795.5	1879.4	2275.2	2335.1	1858.5
67.5°	770.4	779.4	869.3	977.2	1103.1	1166.0	1226.0	1220.0	1264.9	1247.0	1244.0
70°	593.5	602.5	695.5	809.3	872.3	836.3	1022.1	1064.1	1082.1	1097.1	1121.1
72.5°	428.6	446.6	518.6	599.5	566.5	650.4	842.4	905.2	929.3	938.3	968.2
75°	311.7	317.7	335.8	311.7	359.7	452.7	593.5	671.4	701.4	710.4	755.4
77.5°	137.9	140.9	143.9	179.9	230.8	281.8	353.7	416.6	458.6	470.6	482.6
80°	72.0	74.9	92.9	122.9	164.9	206.9	257.8	293.8	320.7	323.8	335.8
82.5°	44.9	48.0	65.9	86.9	116.9	152.8	188.9	218.8	239.8	242.8	245.8
85°	21.0	27.0	39.0	53.9	77.9	98.9	101.9	86.9	92.9	95.9	89.9
87.5°	6.0	9.0	12.0	9.0	12.0	12.0	15.0	18.0	18.0	18.0	21.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2	3372.2
2.5°	3426.2	3399.2	3294.3	3255.3	3153.5	3171.4	3117.4	3114.5	3102.5	3099.5	3096.5
5°	3510.1	3426.2	3300.3	3204.3	3147.4	3141.5	3102.5	3102.5	3114.5	3123.5	3102.5
7.5°	3648.0	3552.1	3339.3	3249.4	3198.4	3189.4	3162.5	3141.5	3168.4	3159.4	3135.4
10°	3806.9	3639.1	3414.2	3336.3	3252.3	3231.4	3231.4	3240.4	3195.4	3210.4	3186.4
12.5°	3983.7	3758.9	3510.1	3420.2	3321.3	3309.3	3303.3	3237.4	3261.4	3249.4	3189.4
15°	4208.5	3896.8	3633.0	3480.2	3396.3	3342.3	3264.3	3252.3	3237.4	3207.4	3180.4
17.5°	4451.4	4046.7	3690.0	3498.1	3372.2	3333.3	3273.3	3210.4	3165.4	3171.4	3150.4
20°	4658.2	4184.6	3711.0	3516.1	3354.3	3279.4	3186.4	3147.4	3099.5	3096.5	3093.5
22.5°	4904.0	4370.5	3740.9	3468.1	3300.3	3222.4	3159.4	3090.5	3057.5	3015.6	3036.6
25°	5197.8	4442.4	3747.0	3441.2	3261.4	3123.5	3090.5	3015.6	3003.6	2943.6	2955.6
27.5°	5410.6	4481.3	3699.0	3357.3	3171.4	3066.5	3006.6	2952.6	2931.6	2886.6	2874.6
30°	5695.4	4541.3	3597.1	3252.3	3081.5	2964.6	2928.6	2916.6	2856.7	2808.7	2802.7
32.5°	6019.1	4580.2	3531.1	3144.4	2988.6	2898.7	2916.6	2859.7	2784.7	2742.8	2730.8
35°	6276.9	4595.3	3366.3	3021.5	2925.6	2868.7	2847.7	2835.7	2727.7	2688.8	2658.8
37.5°	6669.6	4562.3	3228.4	2934.6	2856.7	2835.7	2817.7	2736.7	2613.9	2556.9	2514.9
40°	7128.2	4553.3	3051.5	2811.7	2790.7	2814.7	2760.8	2634.9	2464.0	2401.1	2371.1
42.5°	7568.8	4616.3	2940.6	2745.7	2718.8	2727.7	2652.8	2464.0	2380.1	2344.1	2296.1
45°	8306.2	4748.1	2757.7	2643.9	2631.8	2625.9	2535.9	2338.1	2290.1	2245.2	2236.2
47.5°	8971.7	4661.2	2640.8	2539.0	2550.9	2518.0	2326.1	2263.2	2209.2	2164.2	2149.3
50°	9010.7	4454.3	2476.0	2458.0	2461.0	2404.0	2221.2	2179.2	2110.3	2080.3	2059.3
52.5°	8806.8	4115.7	2323.1	2329.1	2338.1	2245.2	2092.3	2062.3	2005.3	1963.4	1951.4
55°	8234.3	3588.1	2173.2	2197.2	2221.2	2044.3	1996.3	1921.4	1876.5	1816.5	1819.5
57.5°	7254.1	2889.7	1963.4	2002.4	2053.3	1858.5	1822.5	1729.6	1663.6	1615.7	1609.7
60°	4862.0	2056.3	1648.7	1663.6	1777.6	1699.6	1696.6	1603.7	1513.8	1471.8	1447.8
62.5°	2868.7	1570.7	1423.8	1408.9	1405.9	1450.8	1525.8	1492.8	1375.9	1294.9	1319.0
65°	1501.8	1357.9	1324.9	1273.9	1244.0	1232.0	1289.0	1303.9	1226.0	1139.1	1133.1
67.5°	1262.0	1262.0	1235.0	1217.0	1175.0	1124.1	1088.1	1040.1	1028.2	1004.2	974.2
70°	1148.0	1178.0	1169.0	1127.1	1091.1	1034.2	941.2	863.3	788.3	761.4	779.4
72.5°	1001.2	1031.1	1031.1	1010.1	962.2	875.3	785.3	695.5	632.5	584.5	578.6
75°	770.4	785.3	821.4	797.3	734.4	680.4	587.5	494.6	434.6	389.7	380.7
77.5°	491.6	515.6	515.6	512.6	467.6	416.6	356.7	290.7	245.8	212.8	203.8
80°	326.7	341.7	353.7	341.7	311.7	272.8	227.9	182.8	149.9	122.9	116.9
82.5°	239.8	257.8	266.8	254.8	224.8	194.8	161.8	128.9	95.9	74.9	69.0
85°	92.9	95.9	107.9	128.9	125.9	122.9	98.9	72.0	53.9	39.0	35.9
87.5°	24.0	21.0	24.0	24.0	21.0	18.0	18.0	18.0	18.0	9.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)